IN THE CLAIMS:

Claims 1-12: Cancelled.

13. (Currently Amended) A catheter system comprising:

a first handle portion having a proximal end, a distal end, a first fluid flow path, and a second fluid flow path;

a second handle portion having a proximal end, a distal end, a first fluid flow path, and a second fluid flow path, wherein the distal end if the first handle portion is matable with the proximal end of the second handle portion;

a flexible catheter having a proximal end, a distal end, a first fluid flow path, and a second fluid flow path, wherein the distal end of the second handle portion is matable with the proximal end of the catheter to place the first fluid flow path of the flexible catheter ~~is~~ in fluid communication with the first fluid flow path of the second handle portion and the second fluid flow path of the flexible catheter ~~is~~ in fluid communication with the second fluid flow path of the second handle portion; and

a pressure sensor in communication with one of the first and second fluid flow paths.

14. (Original) The catheter system of claim 13, further comprising a source of fluid in communication with one of the first and second fluid flow paths.

15. (Original) The catheter system of claim 14, wherein the source of fluid is responsive to the pressure sensor.

16. (Original) The catheter system of claim 15, wherein the pressure sensor is operative to terminate fluid flow upon detection of a change in pressure.

17. (Original) The catheter system of claim 14, wherein fluid in the first fluid path is under positive pressure and fluid in the second fluid path is under reduced pressure.

18. (Original) The catheter system of claim 14, wherein the pressure sensor is operative to detect a fluid leak in the catheter system.

19. (Original) The catheter system of claim 14, wherein the pressure sensor is operative to detect a fluid leak in the flexible catheter.

20. (Original) The catheter system of claim 14, wherein the pressure sensor is operative to detect a fluid leak in the handle portion.

21. (Original) A catheter system comprising:

a flexible catheter having a proximal end, a distal end, a first fluid flow path, and a second fluid flow path;

a pressure sensor in communication with one of the first and second fluid flow paths; and

a source of fluid refrigerant in communication with one of the first and second fluid flow paths,

wherein the pressure sensor is operative to terminate fluid flow upon detection of a change in pressure.

22. (Currently Amended) The catheter system of claim 21, wherein ~~fluid in the first fluid path is under positive pressure~~ the source of fluid refrigerant is pressurized and fluid in the second fluid path is ~~under reduced pressure~~ in communication with a vacuum source.

23. (Original) The catheter system of claim 22, wherein the pressure sensor is operative to detect a fluid leak in the flexible catheter.